

51th Meeting of the VDE/ITG Section 5.2.4 “IP and Mobility”

Draft Agenda

Cellular Internet of Things

Location TU Munich, Lehrstuhl für Kommunikationsnetze
Arcisstrasse 21, 80333 Munich, Seminar room 1977

Date Friday, Dec. 1st 2017, 9:00 – 15:00

Agenda

Thursday November 30
19:30 **Dinner** on self-pay basis – location to be announced

Friday **December 1**
8:50-9:00 Welcome (Wolfgang Kellerer, TUM)

9:00-10:40 **Session 1: Performance and Quality of Service**

- Network-Calculus-Based Approach for Optimal Transmit Power Allocation in Wireless Industrial Multi-Hop Networks (*Neda Petreska, Fraunhofer ESK*)
- Implementation Aspects of QoS provisioning in Industrial WSN (*Samuele Zoppi, TU Munich*)
- Initial E2E performance results for a 5G industrial automation scenario (*Andreas Maeder, Nokia Bell-Labs*)
- Performance of Cellular IoT Connectivity for Smart City Applications, (*Maciej Muehleisen, Ericsson*)

10:40-11:00 **Coffee Break**

11:00-12:15 **Session 2: Radio Access Networks**

- IoT radio access technologies (*Berthold Panzner, Nokia Bell-Labs*)
- A software-radio UE for NB-IoT - Experiences using the srsLTE suite; (*Andre Puschmann, Paul Sutton, Ismael Gomez, Software Radio Systems*)
- Measuring the Reliability of Wireless Networks (*Matthias Herlich, Salzburg Research Forschungsgesellschaft mbH*)

12:15-13:00 **Lunch break**

13:00-14:40 **Session 3: Use Cases and Applications**

- Considerations for Non-commercial IoT Applications (*Florian Metzger, Universität Duisburg-Essen*)
- Internet of eBikes (*Simon Fink, Prof. Hermann de Meer, Universität Passau, S. Keshav, University of Waterloo, Canada*)
- SDN/NFV-based smart industrial enterprise – Use case: remote asset monitoring (*Waseem Mandarawi, Jürgen Rottmeier, Prof. Hermann de Meer, University of Passau*)
- 5G als Enabler des industriellen/taktilen Internet, (*Christian Mannweiler, Nokia Bell-Labs*)

14:40-15:00 **Wrap-up**

For presenters: presentation slots shall not exceed 25 mins (~15-20 mins presentations with ~5-10 mins discussion)

Registration

For registration to the workshop please send an email to **Mikhail Vilgelm** or **Murat Gürsu** until **Nov. 24th**. There is **no registration fee**.

Please indicate whether you will join the self-pay social event on Nov. 30th.

Mikhail Vilgelm (mikhail.vilgelm@tum.de)
Murat Gürsu (murat.guersu@tum.de)
Wolfgang Kellerer (wolfgang.kellerer@tum.de)

For details see: <http://itg.lkn.ei.tum.de/>